

## DYNAMIC PORT MANAGEMENT

### ABSTRACT

A method and system is disclosed for dynamically managing port and network addresses for a private network using at least one dynamic port management (DPM) driver and a DPM server. The DPM driver is installed on a computer of the private network and the DPM server is installed on a gateway module of the private network. The private network uses a plurality of unregistered network address for its internal uses and has one or more registered network address for communicating with computers outside of the private network. When initiating an application session communicating with at least one computer outside of the private network, a first port is obtained from the DPM driver. A setup process is established for exchanging information between the DPM driver and the DPM server in order to reserve a registered network address and, if the first port is replaceable, for dynamically assigning a second port. The reserved registered network address and the dynamically assigned second port are used for completing communications of the application session.